

WHAT IS CLAIMED IS:

1. An apparatus for selectively deploying one or more sequentially positioned medical appliances from a portable medical device to a target site, the apparatus comprising:
 - 3 a ligation tip having a plurality of sequentially ordered deployable medical appliances in contact with its outside surface,
 - 5 the ligation tip having an internal passage;
 - 6 a body having a channel, the channel in communication with the internal passage of the ligation tip;
 - 8 a string passing through the internal passage and the channel, the string being associated with at least one of the medical appliances from the plurality of sequentially ordered deployable medical appliances; and
 - 11 a means, coupled to the string, for affirmatively verifying that the specific medical appliance, from the plurality of medical appliances, has been deployed.

1. 2. A system for selectively deploying one or more sequentially positioned medical appliances from a portable medical device, having a passage through it, to a target site comprising:
 - 4 a flexible sheath having a channel, an inside surface, an outside surface, a distal end, and a proximal end;
 - 6 an external sealing plug positioned along the outside surface of the sheath between the distal end and the proximal end, the external sealing plug having a passage sized to slidably couple the sheath to the external sealing plug; and
 - 9 a plurality of strings positioned within the channel of the flexible sheath, wherein each string of the plurality of strings has a first end and a second end,
 - 11 the first end of at least one string coupled to a pull, the pull having a unique marking to distinguish it,
 - 13 the second end of this at least one string in physical communication with a catch.

1 3. The system of claim 2 further comprising:
2 a stopper fixedly positioned on the outside surface of the sheath; and
3 a ligation tip containing a plurality of deployable sequentially positioned medical
4 appliances and at least one deployment string, the deployment string coupled to the catch and at
5 least one of the medical appliances.

1 4. The system of claim 3 wherein the pull includes a label identifying a specific appliance.

1 5. The system of claim 4 wherein the label contains a specific number or color.

1 6. The system of claim 2 wherein the sealing plug contains threads sized to rotatably connect
2 it to the medical device.

1 7. The system of claim 6 wherein the stopper is sized to prohibit it from being pulled
2 through the passage of the sealing plug.

1 8. The system of claim 2 wherein the sheath is polygonal and wherein the shape of the pull
2 is associated with an appliance.

1 9. The system of claim 2 wherein the sealing plug is compressible and is sized to
2 compressibly secure itself to an orifice of the medical device.

1 10. The system of claim 2 wherein the external sealing plug contains external threads sized
2 to rotatably secure the plug to the medical device and wherein the medical device is an
3 endoscope.

1 11. The system of claim 2 wherein the catch is a loop.

1 12. A method for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:

3 inserting into an entrance of a portable medical device a removable cable system
4 containing a plurality of strings, at least one string having a first end and a second end, the first
5 end coupled to a pull, the pull marked to associate it with a specific deployable medical
6 appliance, the second end ending in a catch, the catch associated with the specific deployable
7 medical appliance, the plurality of strings encased within a sheath;

8 advancing the removable cable system along the longitudinal axis of the portable
9 medical device;

10 exposing a second end of at least one string of the removable cable system from the
11 orifice of the portable medical device;

12 connecting the second end of the at least one string to a second string, the second string
13 coupled to a deployable medical appliance, the deployable medical appliance positioned on a tip
14 having a connecting end adapted to secure itself to the portable medical device; and

15 installing the tip on the portable medical device.

1 13. The method of claim 12 further comprising:

2 positioning the distal end of the medical device at a target site; and

3 pulling at least one pull to deploy a medical appliance at the target site.

1 14. An apparatus for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:

3 a body containing a variable length string pathway, the pathway having an opening,

4 the length of the pathway alterable through the introduction of a plunger into the
5 pathway,

6 the plunger slidably mounted in the body,

7 the body adapted to be secured to the medical device,

8 the body containing an anchoring point for a string.

1 15. The medical apparatus of claim 14 further comprising:
2 a second plunger slidably mounted in the body and positioned to slide into and elongate
3 the pathway within the body.

1 16. The medical apparatus of claim 14 wherein the body is trumpet-valve shaped.

1 17. A method for selectively deploying one or more sequentially positioned medical
2 appliances from a portable medical device to a target site comprising:
3 depressing a plunger of a body coupled to the medical device, the body containing a
4 string threaded through a string pathway, the string secured to the body, the length of the string
5 pathway being altered by the movement of the plunger, the string also in communication with a
6 deployable medical appliance.

1 18. The method of claim 17 further comprising:
2 depressing a second plunger located in the body, the second plunger altering the length of
3 the string pathway.

1 19. A medical apparatus for selectively deploying one or more sequentially positioned
2 medical appliances from a portable medical device to a target site comprising:
3 a shaft having a channel, an outside surface, an inside surface, a proximal end, a distal
4 end, and an opening;
5 an external handle slidably coupled to the outside surface of the shaft; and
6 a stop along the surface of the shaft, the stop adapted to retard the longitudinal movement
7 of the handle along the shaft,
8 the external handle connected to a string coupled to a tip having a plurality of
9 deployable medical appliances.

- 1 20. The medical apparatus of claim 19 further comprising:
 - 2 a second stop along the surface of the shaft,
 - 3 wherein the deployable medical appliances are ligating bands.
- 1 21. The medical apparatus of claim 19, wherein the stop is integrally formed with the shaft.
- 1 22. The medical apparatus of claim 19 wherein the stop is compressible.
- 1 23. A method for selectively deploying one or more sequentially positioned medical appliances from a portable medical device to a target site comprising:
 - 2 inserting the proximal end of a string into an opening in a hollow shaft, the shaft having an outside surface, an inside surface, a proximal end, and a distal end;
 - 3 securing the proximal end of the string to an external slidible handle, the handle slidably coupled to the outside surface of the shaft, the distal end of the string in communication with a deployable medical appliance; and
 - 4 deploying a deployable medical appliance by sliding the handle until it reaches a
 - 5 first stop.
- 1 24. The method of claim 24, further comprising:
 - 2 sliding the handle axially along the shaft to reach a second stop.